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CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

1-29. (Cancelled)

30. (Previously presented) A method for treating a patent foramen ovale,

comprising:

advancing an implantable device through the vasculature of a subject and into a first

atrial chamber of the heart, wherein the atrial septal wall of the heart has a patent foramen

ovale characterized by a first tissue flap and a second tissue flap, at least a portion of the first

tissue flap overlapping at least a portion of the second tissue flap to define a tunnel

therebetween; and

situating the implantable device within a first piercing in the portion of the first tissue

flap overlapping the second tissue flap and within a second piercing in the portion of the

second tissue flap overlapping the first tissue flap, wherein a first portion of the implantable

device engages the first tissue flap in a second atrial chamber of the heart and a second

portion of the implantable device engages the second tissue flap in the first atrial chamber of

the heart to at least partially close the tunnel.

31. (Previously presented) The method of claim 30, further comprising externally

or internally imaging the implantable device.

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32. (Previously presented) The method of claim 31, wherein the implantable

device comprises a radiopaque marker and wherein imaging the implantable device

comprises externally imaging the radiopaque marker with fluoroscopy.

33. (Previously presented) The method of claim 30, wherein advancing the

implantable device through the vasculature of a subject comprises advancing the implantable

device through the vasculature while the implantable device is within an elongate delivery

apparatus.

34. (Previously presented) The method of claim 33, wherein situating the

implantable device comprises transitioning the first portion of the implantable device to a

retaining configuration to retain the first portion against the first tissue flap.

35. (Previously presented) The method of claim 34, wherein the implantable

device further comprises an intermediate portion between the first portion and the second

portion.

36. (Previously presented) The method of claim 35, wherein the first portion of

the implantable device is an elongate portion coupled with the intermediate portion of the

implantable device such that the elongate portion is pivotable between a first configuration

suitable for housing within the delivery apparatus and the retaining configuration.

37. (Previously presented) The method of claim 36, wherein the first portion of the implantable device further comprises a first end configured to pass through tissue, a

second end, and an intermediate region located therebetween.

38. (Previously presented) The method of claim 36, wherein the first portion of

the implantable device further comprises a first end configured to penetrate tissue, a second

end, and an intermediate region located therebetween.

39. (Previously presented) The method of claim 38, wherein the intermediate

region of the first portion is pivotally coupled with the intermediate portion of the

implantable device.

40. (Previously presented) The method of claim 34, wherein situating the

implantable device comprises allowing the second portion of the implantable device to

transition to a retaining configuration to retain the second portion against the second tissue

flap.

41. (Previously presented) The method of claim 34, wherein situating the

implantable device comprises securing the second portion to the implantable device in a

configuration configured to retain the second portion against the second tissue flap.

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42. (Previously presented) The method of claim 30, wherein the first portion

engages the first tissue flap in a retaining configuration where a longitudinal axis of the first

portion lies substantially perpendicular to a longitudinal axis of the portion of the implantable

device within the first piercing.

43. (Previously presented) The method of claim 42, wherein the first portion is an

elongate portion.

44. (Previously presented) The method of claim 42, wherein the first portion is an

elongate, needle-like portion.

45. (Previously presented) The method of claim 30, wherein the first portion

comprises a laterally extending member configured to engage the first tissue flap and the

second portion comprises a laterally extending member configured to engage the second

tissue flap.

46. (Previously presented) The method of claim 30, wherein situating the

implantable device comprises:

engaging the first tissue flap with the first portion of the implantable device; and

then engaging the second tissue flap with the second portion of the implantable

device.

47. (Previously presented) The method of claim 46, wherein engaging the first

tissue flap with the first portion of the implantable device comprises transitioning the first

portion of the implantable device to a retaining configuration configured to retain the first

portion against the first tissue flap.

48. (Previously presented) The method of claim 46, wherein the second portion

of the implantable device comprises retaining arms configured to engage the second tissue

flap.

49. (Previously presented) The method of claim 46, wherein the second portion

of the implantable device comprises at least one laterally extending member configured to

engage the second tissue flap.

50. (Previously presented) The method of claim 46, wherein the second portion

of the implantable device comprises a plurality of laterally extending members configured to

engage the second tissue flap.

51. (Previously presented) The method of claim 46, wherein engaging the second

tissue flap with the second portion of the implantable device comprises allowing the second

portion of the implantable device to transition to a retaining configuration configured to

retain the second portion against the second tissue flap. . .

- 52. (Previously presented) The method of claim 51, wherein the second portion of the implantable device is biased towards the retaining configuration.
- 53. (Previously presented) The method of claim 52, wherein the retaining configuration lies substantially in a plane parallel to the second tissue flap.
- 54. (Previously presented) The method of claim 53, wherein the retaining configuration is generally coiled.
- 55. (Previously presented) The method of claim 53, wherein the retaining configuration is a generally "L" shape.
- (Previously presented) The method of claim 53, wherein the retaining configuration is a generally "U" shape.
- (Previously presented) The method of claim 53, wherein the retaining configuration is a generally "Y" shape.
- 58. (Previously presented) The method of claim 53, wherein the retaining configuration is a generally "S" shape.

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59. (Previously presented) The method of claim 46, wherein the first and second

tissue flaps are engaged such that the first tissue flap is held in contact with the second tissue

flap to close the tunnel.

60. (Previously presented) The method of claim 46, wherein the first portion of

the implantable device engages a first septal surface exposed within a second atrial chamber.

61. (Previously presented) The method of claim 46, wherein the second portion

of the implantable device engages a second septal surface exposed within the first atrial

chamber.

62. (Previously presented) The method of claim 30, wherein the first atrial

chamber is the right atrium and the second atrial chamber is the left atrium.

63. (Previously presented) The method of claim 30, wherein the first atrial

chamber is the left atrium and the second atrial chamber is the right atrium.

64. (Previously presented) The method of claim 63, wherein advancing the

implantable device through the vasculature of the subject comprises advancing the

implantable device through the inferior vena cava to the heart.

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65. (Previously presented) The method of claim 30, wherein the first portion of

the implantable device comprises a tip configured to pass through tissue.

66. (Previously presented) The method of claim 30, wherein the first portion of

the implantable device comprises a tip configured to penetrate tissue.

67. (Previously presented) The method of claim 66, wherein situating the

implantable device comprises advancing the first portion of the implantable device through

the second tissue flap to create the second piercing.

68. (Previously presented) The method of claim 67, wherein situating the

implantable device comprises advancing the implantable device through the first tissue flap

to create the first piercing.

69. (Previously presented) The method of claim 68, wherein situating the

implantable device further comprises advancing the implantable device until the first portion

of the implantable device is fully exposed within the second atrial chamber.

70. (Previously presented) The method of claim 69, wherein situating the

implantable device comprises transitioning the first portion of the implantable device to a

retaining configuration configured to retain the implantable device against the first tissue

flap.

71. (Previously presented) The method of claim 70, wherein the first portion of

the implantable device resides substantially flat against the first tissue flap in the retaining

configuration.

72. (Previously presented) The method of claim 71, wherein the implantable

device further comprises an intermediate portion between the first portion and the second

portion.

73. (Previously presented) The method of claim 72, wherein the first portion of

the implantable device is an elongate portion coupled with the intermediate portion of the

implantable device.

74. (Previously presented) The method of claim 73, wherein situating further

comprises pivoting the elongate portion from a first configuration suitable for housing within

a delivery apparatus to the retaining configuration.

75. (Previously presented) The method of claim 74, wherein the first portion of

the implantable device further comprises a first end configured to penetrate tissue, a second

end, and an intermediate region located therebetween.

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76 (Previously presented) The method of claim 75, wherein the intermediate region is coupled with the intermediate portion of the implantable device.

77. (Previously presented) The method of claim 70, wherein situating the

implantable device comprises allowing the second portion of the implantable device to

transition to a retaining configuration to retain the second portion against the second tissue

flap.

78. (Previously presented) The method of claim 70, wherein situating the

implantable device comprises coupling the second portion with the implantable device in a

configuration configured to retain the second portion against the second tissue flap.

79. (Previously presented) The method of claim 78, wherein the second portion is

a locking element.

80. (Previously presented) The method of claim 79, wherein the locking element

comprises arms.

81. (Previously presented) The method of claim 79, wherein the implantable

device comprises a filament and wherein the locking element is configured to lockingly

engage the filament.

82. (Previously presented) The method of claim 81, wherein the filament is a

suture.

83. (Previously presented) The method of claim 30, wherein the implantable

device comprises NITINOL.

84. (Previously presented) The method of claim 30, wherein the implantable

device comprises stainless steel.

85. (Previously presented) The method of claim 30, wherein the implantable

device comprises a shape memory material.

86. (Previously presented) The method of claim 30, wherein advancing the

implantable device through the vasculature comprises advancing an elongate tubular member

having a lumen and open distal end through the vasculature with the implantable device

housed within the lumen.

87. (Previously presented) The method of claim 86, wherein situating the

implantable device comprises advancing the implantable device through the distal end of the

tubular member with a distal end of an elongate pusher member.

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88. (Previously presented) The method of claim 87, further comprising advancing

the pusher member with an actuator.

89. (Previously presented) The method of claim 88, wherein the elongate tubular

member has a substantially atraumatic distal tip.

90. (Previously presented) The method of claim 89, wherein the distal end of the

pusher member is configured to engage the implantable device.

91. (Previously presented) The method of claim 90, wherein the pusher member

comprises a gripping mechanism for gripping the implantable device.

92. (Previously presented) The method of claim 87, wherein situating the

implantable device further comprises:

advancing the first portion of the implantable device through the first and second

tissue flaps with the pusher member; and

transitioning the first portion of the implantable device to a retaining configuration

after the first portion has been advanced through the first and second tissue flaps.

93. (Previously presented) The method of claim 92, wherein the first portion of

the implantable device comprises a tip configured to penetrate tissue.

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94. (Previously presented) The method of claim 93, wherein situating the

implantable device further comprises allowing a second portion of the implantable device to

transition to a retaining configuration after the second portion exits the distal end of the

tubular member.

95. (Previously presented) The method of claim 86, wherein the implantable

device comprises a radiopaque marker.

96. (Previously presented) The method of claim 86, wherein the tubular member

comprises a radiopaque marker.

97. (Previously presented) The method of claim 87, wherein the pusher member

comprises a radiopaque marker.

98. (Previously presented) The method of claim 30, wherein advancing the

implantable device through the vasculature of the subject comprises advancing the

implantable device through the inferior vena cava.

99. (Previously presented) The method of claim 30, wherein advancing the

implantable device through the vasculature of the subject comprises advancing the

implantable device through the superior vena cava.

100. (Previously presented) The method of claim 30, wherein advancing the

implantable device through the vasculature of the subject comprises advancing the

implantable device through an artery.

101. (Previously presented) The method of claim 30, wherein the first atrial

chamber is the right atrium.

102. (Previously presented) The method of claim 30, wherein the first atrial

chamber is the left atrium

103. (Previously presented) The method of claim 30, wherein situating the

implantable device comprises advancing a sharp end of the implantable device through the

first tissue flap to create the first piercing.

104. (Previously presented) The method of claim 103, wherein situating the

implantable device comprises advancing the sharp end of the implantable device through the

second tissue flap to create the second piercing.

105. (Previously presented) The method of claim 104, wherein situating the

implantable device comprises releasing the implantable device while located within the first

and second piercings.

106. (Previously presented) The method of claim 30, wherein situating the implantable device comprises releasing the implantable device while located within the first and second piercings.